EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER

01144491

PUBLICATION DATE

06-06-89

APPLICATION DATE

01-12-87

APPLICATION NUMBER

62303741

APPLICANT: TOSHIBA CORP;

INVENTOR: SAKAMOTO MASANORI;

INT.CL.

C09K 19/40 C07F 7/08 C09K 19/46

TITLE

: LIQUID CRYSTAL MATERIAL

ABSTRACT: PURPOSE: To obtain a liquid crystal material containing a specific ferroelectric liquid crystal material, having broad temperature range of chiral smectic C phase in low-temperature side, small rotary viscosity coefficient, large spontaneous polarization, quick response and excellent mechanical shock resistance.

> CONSTITUTION: The objective material contains one or more compounds of formula [m is 0~5; n is 2~10; OR is optically active alkoxy or aralkyloxy (preferably 1-metylpeptyloxy or 2-metylbutyloxy)]. The above compound can be synthesized by reacting an optically active alcohol with p-toluenesulfonic acid chloride, heating the reaction product together with 4'-hydroxybiphenyl-4- carboxylic acid in the presence of an alkali, halogenating the product, reacting the halogenated product with an alkenyloxyphenol and reacting with trimethyldimethylpolysiloxane in the presence of a platinum catalyst.

COPYRIGHT: (C)1989,JPO&Japio

BEST AVAILABLE COPY